



wallach27A(INL2).ST25.txt  
SEQUENCE LISTING

<110> WALLACH, David  
KOVALENKO, Andrei

<120> MODULATORS OF THE FUNCTION OF RECEPTORS OF THE TNF/NGF RECEPTOR  
FAMILY AND OTHER PROTEINS

<130> WALLACH=27A

<140> 10/761,370

<141> 2004-01-22

<150> IL 123758

<151> 1998-03-19

<150> PCT/IL99/00158

<151> 1999-03-18

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<151> 1998-09-01

<150> US 09/646,403

<151> 2001-02-21

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<170> PatentIn version 3.3

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|            |            |            |            |            |            |      |
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| caggagcagc | tggagcagct | gcagagggag | tacagcaaac | tgaaggccag | ctgtcaggag | 1200 |
| tcggccagga | tcgaggacat | gaggaagcgg | catgtcgagg | tctcccaggc | ccccttgccc | 1260 |
| cccgcccctg | cctacctctc | ctctcccctg | gccctgccc  | gccagaggag | gagccccccc | 1320 |
| gaggagccac | ctgacttctg | ctgtcccaag | tgccagtatc | aggcccctga | tatggacacc | 1380 |
| ctgcagatac | atgtcatgga | gtgcattgag | tagggccggc | cagtgcagg  | ccactgcctg | 1440 |
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| cggcacctta | cgcttcagct | gttgattccg | ctggctccct | cttttgggg  | agatgcggcc | 1620 |
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| gctctcaggg | agaactgctt | cccctggcag | agctgggtgg | cagctcttcc | tcccaccgga | 1800 |
| caccgacccg | cccgtgctg  | tgccctggga | gtgctgccct | cttaccatgc | acacgggtgc | 1860 |
| tctccttttg | ggctgcatgc | tattccattt | tgcagccaga | ccgatgtgta | tttaaccagt | 1920 |
| cactattgat | ggacatttgg | gttgtttccc | atctttttgt | taccatmaat | artggcmtag | 1980 |
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| tcttcgga   | tgctcacat  | atagtttggc | agctagccct  | tgccctgttg | gatgaatagg | 180 |
| cacctctgga | agagccaact | gtgtgagatg | gtgcagccca  | gtggtggccc | ggcagcagat | 240 |
| caggacgtac | tgggcgaaga | gtctcctctg | gggaagccag  | ccatgctgca | cctgccttca | 300 |
| gaacagggcg | ctcctgagac | cctccagcgc | tgccctgggag | gagaatcaag | agctccgaga | 360 |
| tgccatccgg | cagtagcaac | cagattcttg | cgggagctgc  | cgaaggagc  | tttctgcatt | 420 |
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| aaactggtgg | agagactcgg | cctggagaag | ctcgatctga  | agaggcagaa | ggagcaggct | 540 |
| ctgcgggagg | tggagcacct | gaagagatgc | cagcagcaga  | tggctgagga | caaggcctct | 600 |
| gtgaaagccc | aggtgacgtc | cttgctcggg | gagctgcagg  | agagccagag | tcgcttgga  | 660 |
| gctgccacta | aggaatgcca | ggctctggag | ggtcggggccc | gggcggccag | cgagcaggcg | 720 |
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| gacaaccaca | tcaagagcag | cgtggtgggc | agtgagcgga | agcgaggaat  | gcagctggaa  | 960  |
| gatctcaaac | agcagctcca | gcaggccgag | gaggccctgg | tggccaaaca  | ggaggtgatc  | 1020 |
| gataagctga | aggaggaggc | cgagcagcac | aagattgtga | tggagaccgt  | tccggtgctg  | 1080 |
| aaggcccagg | cggatatcta | caaggcggac | ttccaggctg | agaggcaggc  | ccgggagaag  | 1140 |
| ctggccgaga | agaaggagct | cctgcaggag | cagctggagc | agctgcagag  | ggagtacagc  | 1200 |
| aaactgaagg | ccagctgtca | ggagtcggcc | aggatcgagg | acatgaggaa  | gcggcatgtc  | 1260 |
| gaggtctccc | aggccccctt | gccccccgcc | cctgcctacc | tctcctctcc  | cctggccctg  | 1320 |
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| ggagccccac | ccaggagctg | gccgcggcac | cttacgcttc | agctgttgat  | tccgctgggtc | 1620 |
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| tctgtctgct | cgaaccactt | gcctcgggct | aatccctccc | tcttcctcca  | cccggcactg  | 1740 |
| gggaagtcaa | gaatggggcc | tggggctctc | agggagaact | gcttcccctg  | gcagagctgg  | 1800 |
| gtggcagctc | ttcctcccac | cggacaccga | cccgcccgct | gctgtgccct  | gggagtgtcg  | 1860 |
| ccctcttacc | atgcacacgg | gtgctctcct | tttgggctgc | atgctattcc  | attttgcagc  | 1920 |
| cagaccgatg | tgtatttaac | cagtcactat | tgatggacat | ttgggttggt  | tcccatcttt  | 1980 |
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|         | ccaatggaag | tattggccac | agtccacttt | ctctgtcagc | ccagtctgta | atggaagagc | 180 |
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Wallach27A(INL2).ST25.txt

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 Leu Gly Lys Pro Ala Met Leu His Leu Pro Ser Glu Gln Gly Ala Pro  
                     35                      40                      45  
 Glu Thr Leu Gln Arg Cys Leu Glu Glu Asn Gln Glu Leu Arg Asp Ala  
                     50                      55                      60  
 Ile Arg Gln Ser Asn Gln Ile Leu Arg Glu Arg Cys Glu Glu Leu Leu  
                     65                      70                      75                      80  
 His Phe Gln Ala Ser Gln Arg Glu Glu Lys Glu Phe Leu Met Cys Lys  
                     85                      90                      95  
 Phe Gln Glu Ala Arg Lys Leu Val Glu Arg Leu Gly Leu Glu Lys Leu  
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 Asp Leu Lys Arg Gln Lys Glu Gln Ala Leu Arg Glu Val Glu His Leu  
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 Lys Arg Cys Gln Gln Gln Met Ala Glu Asp Lys Ala Ser Val Lys Ala  
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 Glu Ala Ala Thr Lys Glu Cys Gln Ala Leu Glu Gly Arg Ala Arg Ala  
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 Ala Ser Glu Gln Ala Arg Gln Leu Glu Ser Glu Arg Glu Ala Leu Gln  
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 Gln Gln His Ser Val Gln Val Asp Gln Leu Arg Met Gln Gly Gln Ser  
                     195                      200                      205  
 Val Glu Ala Ala Leu Arg Met Glu Arg Gln Ala Ala Ser Glu Glu Lys  
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 Arg Lys Leu Ala Gln Leu Gln Val Ala Tyr His Gln Leu Phe Gln Glu  
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 Tyr Asp Asn His Ile Lys Ser Ser Val Val Gly Ser Glu Arg Lys Arg  
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 Gly Met Gln Leu Glu Asp Leu Lys Gln Gln Leu Gln Gln Ala Glu Glu  
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 Ala Leu Val Ala Lys Gln Glu Val Ile Asp Lys Leu Lys Glu Glu Ala  
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275 wallach27A(INL2).ST25.txt  
280 285

Glu Gln His Lys Ile Val Met Glu Thr Val Pro Val Leu Lys Ala Gln  
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Ala Asp Ile Tyr Lys Ala Asp Phe Gln Ala Glu Arg Gln Ala Arg Glu  
305 310 315 320

Lys Leu Ala Glu Lys Lys Glu Leu Leu Gln Glu Gln Leu Glu Gln Leu  
325 330 335

Gln Arg Glu Tyr Ser Lys Leu Lys Ala Ser Cys Gln Glu Ser Ala Arg  
340 345 350

Ile Glu Asp Met Arg Lys Arg His Val Glu Val Ser Gln Ala Pro Leu  
355 360 365

Pro Pro Ala Pro Ala Tyr Leu Ser Ser Pro Leu Ala Leu Pro Ser Gln  
370 375 380

Arg Arg Ser Pro Pro Glu Glu Pro Pro Asp Phe Cys Cys Pro Lys Cys  
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Gln Tyr Gln Ala Pro Asp Met Asp Thr Leu Gln Ile His Val Met Glu  
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Cys Ile Glu

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<212> PRT  
<213> Mouse

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Leu Gly Lys Pro Ala Met Leu His Leu Pro Ser Glu Gln Gly Thr Pro  
35 40 45

Glu Thr Leu Gln Arg Cys Leu Glu Glu Met Gln Glu Leu Arg Asp Ala  
50 55 60

Ile Arg Gln Ser Asn Gln Met Leu Arg Glu Arg Cys Glu Glu Leu Leu  
65 70 75 80

His Phe Gln Val Ser Gln Arg Trp Lys Glu Phe Leu Met Cys Lys Phe  
85 90 95

wallach27A(INL2).ST25.txt

Gln Glu Ala Arg Lys Leu Val Glu Arg Leu Ser Leu Glu Lys Leu Glu  
100 105 110

Lys Leu Asp Leu Arg Ser Gln Arg Glu Gln Ala Leu Lys Glu Leu Glu  
115 120 125

Gln Leu Lys Lys Cys Gln Gln Gln Met Ala Glu Asp Lys Ala Ser Val  
130 135 140

Lys Ala Gln Val Thr Ser Leu Leu Gly Glu Leu Gln Glu Ser Gln Ser  
145 150 155 160

Arg Leu Glu Ala Ala Thr Lys Asp Arg Gln Ala Leu Glu Gly Arg Ile  
165 170 175

Arg Ala Val Ser Glu Gln Val Arg Gln Leu Glu Ser Glu Arg Glu Val  
180 185 190

Leu Gln Gln Gln His Ser Val Gln Val Asp Gln Leu Arg Met Gln Asn  
195 200 205

Gln Ser Val Glu Ala Ala Leu Arg Met Glu Arg Gln Ala Ala Ser Glu  
210 215 220

Glu Lys Arg Lys Leu Ala Gln Leu Gln Ala Ala Tyr His Gln Leu Phe  
225 230 235 240

Gln Asp Tyr Asp Ser His Ile Lys Ser Ser Lys Gly Met Gln Leu Glu  
245 250 255

Asp Leu Arg Gln Gln Leu Gln Gln Ala Glu Glu Ala Leu Val Ala Lys  
260 265 270

Gln Glu Leu Ile Asp Lys Leu Lys Glu Glu Ala Glu Gln His Lys Ile  
275 280 285

Val Met Glu Thr Val Glu Val Leu Lys Ala Gln Ala Asp Ile Tyr Lys  
290 295 300

Ala Asp Phe Gln Ala Glu Arg His Ala Arg Glu Lys Leu Val Glu Lys  
305 310 315 320

Lys Glu Tyr Leu Gln Glu Gln Leu Glu Gln Leu Gln Arg Glu Phe Asn  
325 330 335

Lys Leu Lys Val Gly Cys His Glu Ser Ala Arg Ile Glu Asp Met Arg  
340 345 350

Lys Arg His Val Glu Thr Gln Pro Pro Leu Leu Pro Ala Pro Ala His  
355 360 365

wallach27A(INL2).ST25.txt

His Ser Phe His Leu Ala Leu Ser Asn Gln Arg Arg Ser Pro Pro Glu  
370 375 380

Glu Pro Pro Asp Phe Cys Cys Pro Lys Cys Gln Tyr Gln Ala Pro Asp  
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Met Asp Thr Leu Gln Ile His Val Met Glu Cys Ile  
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Ala Arg Lys Leu Val Glu Arg Leu Ser Leu Glu Lys Leu Asp Leu Arg  
35 40 45

Ser Gln Arg Glu Gln Ala Leu Lys Glu Leu Glu Gln Leu Lys Lys Cys  
50 55 60

Gln Gln Gln Met Ala Glu Asp Lys Ala Ser Val Lys Ala Gln Val Thr  
65 70 75 80

Ser Leu Leu Gly Glu Leu Gln Glu Ser Gln Ser Arg Leu Glu Ala Ala  
85 90 95

Thr Lys Asp Arg Gln Ala Leu Glu Gly Arg Ile Arg Ala Val Ser Glu  
100 105 110

Gln Val Arg Gln Leu Glu Ser Glu Arg Glu Val Leu Gln Gln Gln His  
115 120 125

Ser Val Gln Val Asp Gln Leu Arg Met Arg Thr Arg Ala Trp Arg Leu  
130 135 140

Pro Cys Glu Trp Ser Gly Arg Leu Leu Gln Arg Arg Ser Gly Thr Gly  
145 150 155 160

Leu Gln Leu Gln Ala Ala Tyr His Gln Leu Phe Gln Asp Tyr Asp Ser  
165 170 175

His Ile Lys Ser Ser Lys Gly Met Gln Leu Glu Asp Leu Arg Gln Gln  
180 185 190



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Leu Gln Gln Ala Glu Glu Ala Leu Val Ala Lys Gln Glu Leu Ile Asp  
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Lys Leu Lys Glu Glu Ala Glu Gln His Lys Ile Cys Asp Glu Thr Val  
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Leu Gly Glu Asp Lys Ala Ser Val Lys Ala Gln Val Thr Ser Leu Leu  
35 40 45

Gly Glu Leu Gln Glu Ser Gln Ser Arg Trp Glu Cys Cys Pro Leu Thr  
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Met His Thr Gly Ala Leu Leu Leu Gly Cys Met Leu Phe His Phe Ala  
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Ala Arg Pro Met Cys Ile  
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20 25 30

Asp Thr Phe Thr Pro Glu Glu Leu Leu Gln Gln Met Lys Glu Leu Leu  
35 40 45

Thr Glu Asn His Gln Leu Lys Glu Ala Met Lys Leu Asn Asn Gln Ala  
50 55 60

Met Lys Gly Arg Phe Glu Glu Leu Ser Ala Trp Thr Glu Lys Gln Lys  
65 70 75 80

wallach27A(INL2).ST25.txt

Glu Glu Arg Gln Phe Phe Glu Ile Gln Ser Lys Glu Ala Lys Glu Arg  
85 90 95

Leu Met Ala Leu Ser His Glu Asn Glu Lys Leu Lys Glu Glu Leu Gly  
100 105 110

Lys Leu Lys Gly Lys Ser Glu Arg Ser Ser Glu Asp Pro Thr Asp Asp  
115 120 125

Ser Arg Leu Pro Arg Ala Glu Ala Glu Gln Glu Lys Asp Gln Leu Arg  
130 135 140

Thr Gln Val Val Arg Leu Gln Ala Glu Lys Ala Asp Leu Leu Gly Ile  
145 150 155 160

Val Ser Glu Leu Gln Leu Lys Leu Asn Ser Ser Gly Ser Ser Glu Asp  
165 170 175

Ser Phe Val Glu Ile Arg Met Ala Glu Gly Glu Ala Glu Gly Ser Val  
180 185 190

Lys Glu Ile Lys His Ser Pro Gly Ser Thr Arg Thr Val Ser Thr Gly  
195 200 205

Thr Ala Leu Ser His Tyr Arg Arg Arg Ser Ala Asp Gly Ala Lys Asn  
210 215 220

Tyr Phe Glu His Glu Glu Leu Thr Val Ser Gln Leu Leu Leu Cys Leu  
225 230 235 240

Arg Glu Gly Asn Gln Lys Val Glu Arg Leu Glu Val Ala Leu Lys Glu  
245 250 255

Ala Lys Glu Arg Val Ser Asp Phe Glu Lys Lys Thr Ser Asn Arg Ser  
260 265 270

Glu Ile Glu Thr Gln Thr Glu Gly Ser Thr Glu Lys Glu Asn Asp Glu  
275 280 285

Glu Lys Gly Pro Glu Thr Val Gly Ser Glu Val Glu Ala Leu Asn Leu  
290 295 300

Gln Val Thr Ser Leu Phe Lys Glu Leu Gln Glu Ala His Thr Lys Leu  
305 310 315 320

Ser Glu Ala Glu Leu Met Lys Lys Arg Leu Gln Glu Lys Cys Gln Ala  
325 330 335

Leu Glu Arg Lys Asn Ser Ala Ile Pro Ser Glu Leu Asn Glu Lys Gln  
340 345 350

wallach27A(INL2).ST25.txt

Glu Leu Val Tyr Pro Asn Lys Lys Leu Glu Leu Gln Val Glu Ser Met  
355 360 365

Leu Ser Glu Ile Lys Met Glu Gln Ala Lys Thr Glu Asp Glu Lys Ser  
370 375 380

Lys Leu Thr Val Leu Gln Met Thr His Asn Lys Leu Leu Gln Glu His  
385 390 395 400

Asn Asn Ala Leu Lys Thr Ile Glu Glu Leu Thr Arg Lys Glu Ser Glu  
405 410 415

Lys Val Asp Arg Ala Val Leu Lys Glu Leu Ser Glu Lys Leu Glu Leu  
420 425 430

Ala Glu Lys Ala Leu Ala Ser Lys Gln Leu Gln Met Asp Glu Met Lys  
435 440 445

Gln Thr Ile Ala Lys Gln Glu Glu Asp Leu Glu Thr Met Thr Ile Leu  
450 455 460

Arg Ala Gln Met Glu Val Tyr Cys Ser Asp Phe His Ala Glu Arg Ala  
465 470 475 480

Ala Arg Glu Lys Ile His Glu Glu Lys Glu Gln Leu Ala Leu Gln Leu  
485 490 495

Ala Val Leu Leu Lys Glu Asn Asp Ala Phe Glu Asp Gly Gly Arg Gln  
500 505 510

Ser Leu Met Glu Met Gln Ser Arg His Gly Ala Arg Thr Ser Asp Ser  
515 520 525

Asp Gln Gln Ala Tyr Leu Val Gln Arg Gly Ala Glu Asp Arg Asp Trp  
530 535 540

Arg Gln Gln Arg Asn Ile Pro Ile His Ser Cys Pro Lys Cys Gly Glu  
545 550 555 560

Val Leu Pro Asp Ile Asp Thr Leu Gln Ile His Val Met Asp Cys Ile  
565 570 575

Ile

<210> 9  
<211> 4  
<212> PRT  
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<223> Unknown

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<221> misc\_feature

<222> (1)..(1)

<223> Asp is modified by acetyl (Ac).

<220>

<221> misc\_feature

<222> (4)..(4)

<223> Asp is modified by 4-methyl-coumaryl-7-amide (AMC).

<400> 9

Asp Glu Val Asp

1